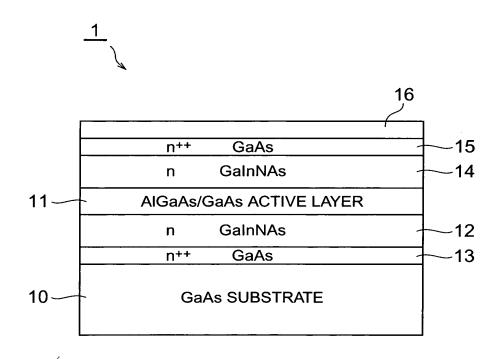


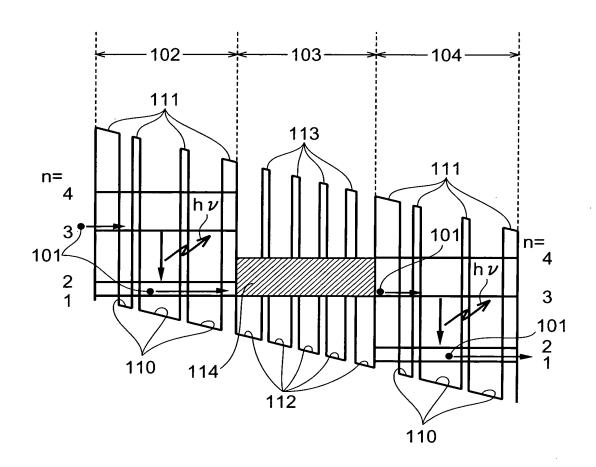
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Fig.1



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Fig.2



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Fig.3

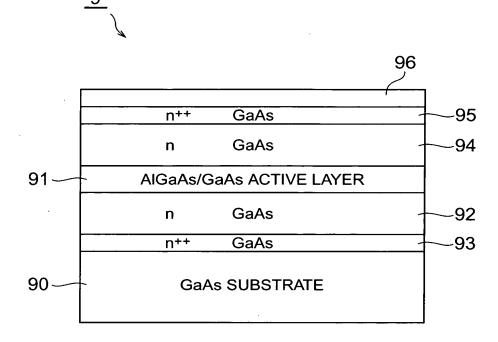
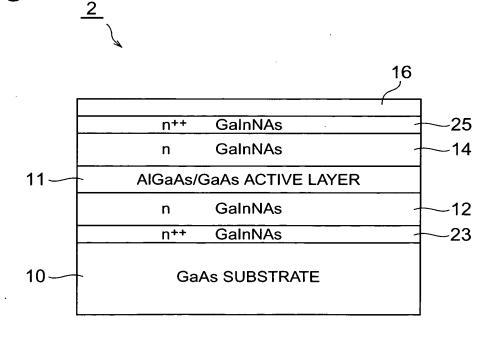


Fig.4



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Fig.5

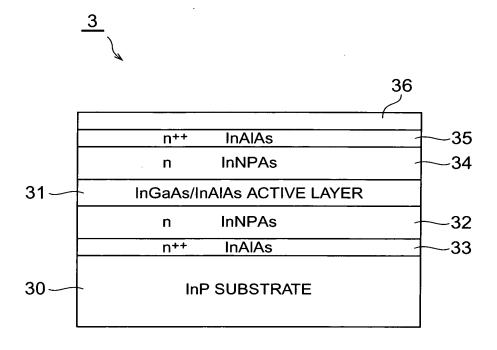
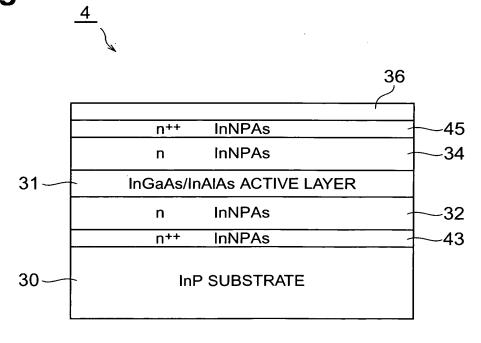
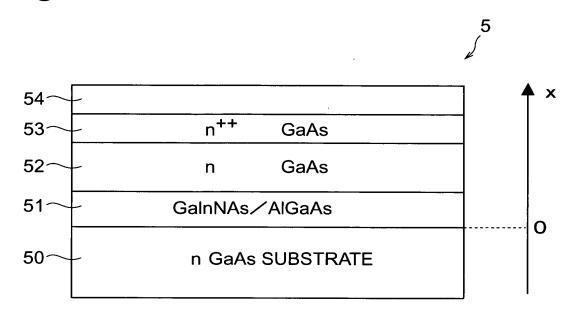


Fig.6



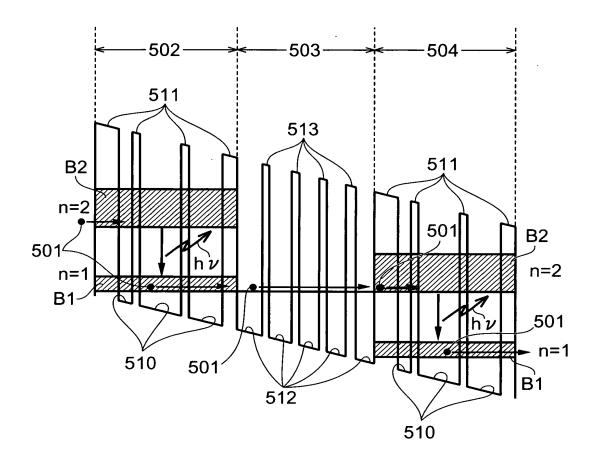
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Fig.7



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Fig.8



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Fig.9

	LAYER COMPOSITION	THICKNESS(nm)	CARRIER DENSITY (cm ⁻³)
INJECTION LAYERS	GalnNAs	2.1	UNDOPE
	AlGaAs	2.5	UNDOPE
	GalnNAs	2.3	1.6×10 ¹⁷
	AlGaAs	2.5	1.6×10 ¹⁷
	GalnNAs	2.3	1.6×10 ¹⁷
	AlGaAs	2.3	1.6×10 ¹⁷
	GalnNAs	2.8	UNDOPE
	AlGaAs	2.0	UNDORE
	GalnNAs	3.2	UNDOPE
QUANTUM WELL LIGHT EMITTING LAYERS	AlGaAs	3.4	UNDOPE
	GalnNAs	4.0	UNDOPE
	AlGaAs	1.7	UNDOPE
	GalnNAs	4.9	UNDOPE
	AlGaAs	2.0	UNDOPE
	GalnNAs	1.5	UNDOPE
	AlGaAs	5.8	UNDOPE

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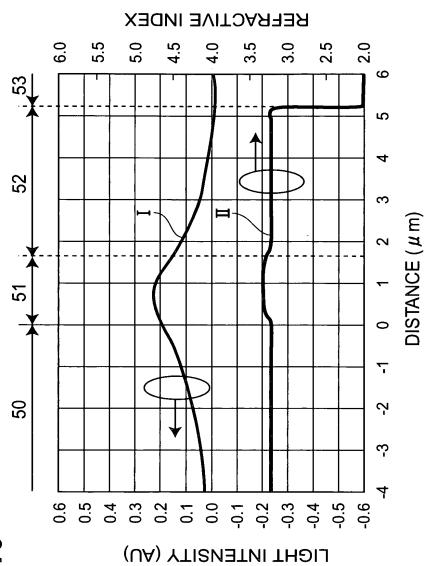
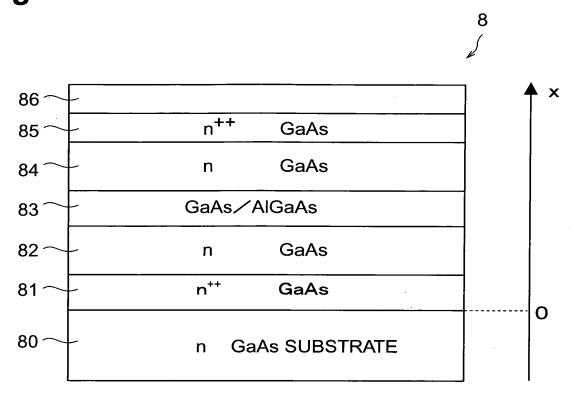


Fig. 10

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Fig.11



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Fig.12

	LAYER COMPOSITION	THICKNESS(nm)	CARRIER DENSITY (cm ⁻³)
INJECTION LAYERS	GaAs	2.1	UNDOPE
	AlGaAs	2.5	UNDOPE
	GaAs	2.3	1.6 × 10 ¹⁷
	AlGaAs	2.5	1.6 × 10 ¹⁷
	GaAs	2.3	1.6 × 10 ¹⁷
	AlGaAs	2.3	1.6 × 10 ¹⁷
	GaAs	2.8	UNDOPE
	AlGaAs	2.0	UNDOPE
	GaAs	3.2	UNDOPE
QUANTUM WELL LIGHT EMITTING LAYERS	AlGaAs	3.4	UNDOPE
	GaAs	4.0	UNDOPE
	AlGaAs	1.7	UNDOPE
	GaAs	4.9	UNDOPE
	AlGaAs	2.0	UNDOPE
	GaAs	1.5	UNDOPE
	AlGaAs	5.8	UNDOPE

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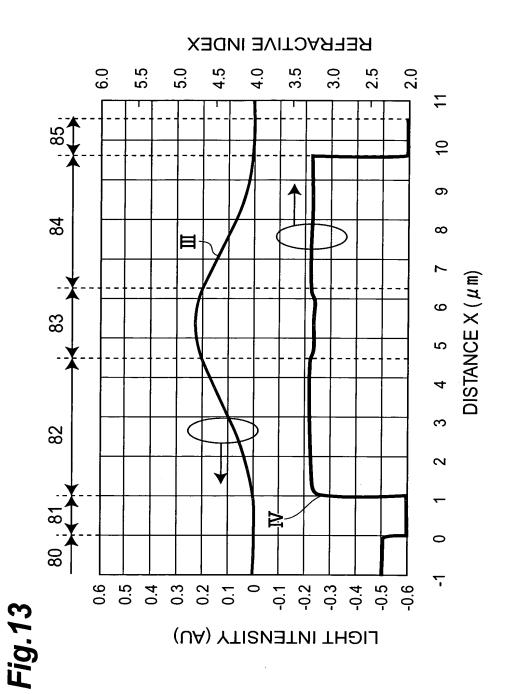
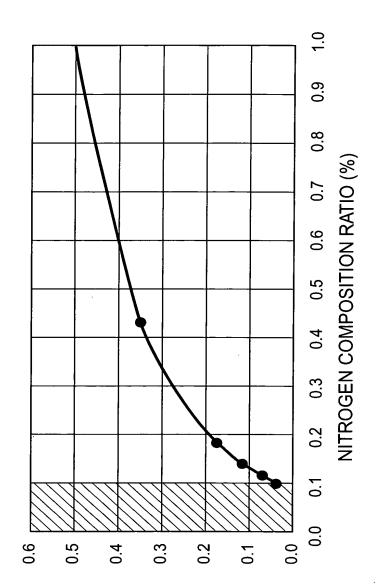


Fig. 14

LIGHT CONTAINMENT FACTOR



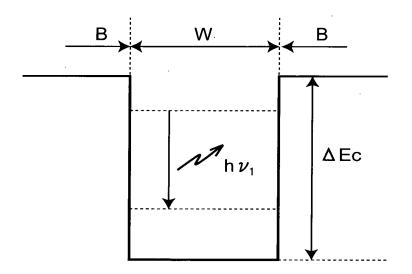
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REPLACEMENT SHEET

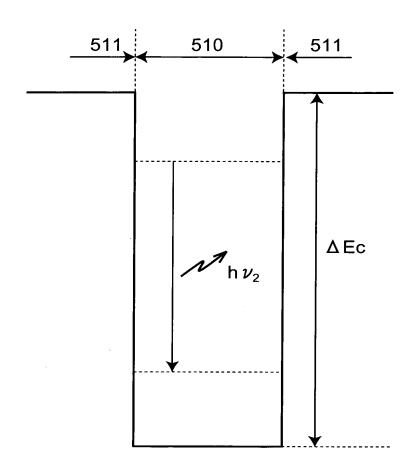
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Fig.15



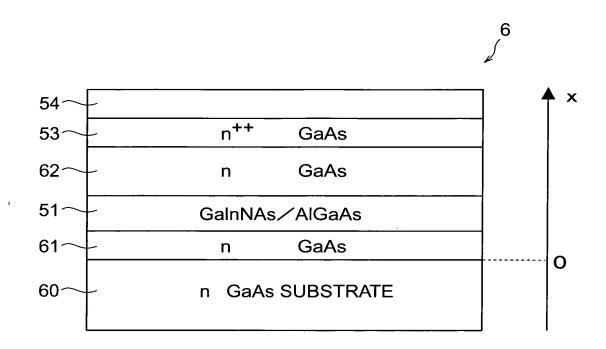
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Fig.16



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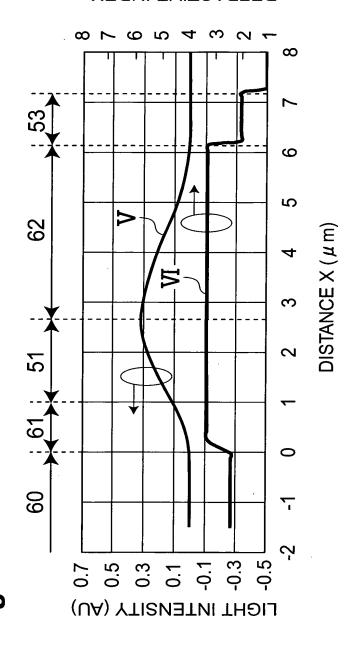
Fig.17



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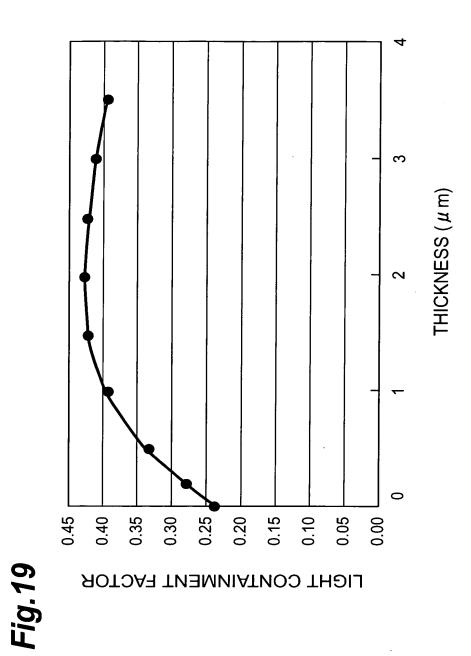
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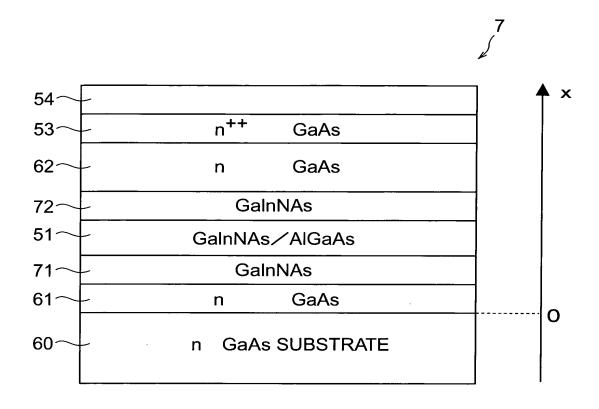
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Fig.20



REPLACEMENT SHEET

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